PR-03-2003 THU 10:27 AM LGMTP			FAX N	0. 801 ⁷⁷ 7 59	921	P. (
SPEUIAL PAUNAGING INSTA	, –	– -	. 1	21040	01-340	
PART OR DRAWING NO. 23831		NA	TIONAL	21649 L STOCK NO. 40-6657		REVISION
OP ICO UNIT PACK UNIT PACK CO OI 000 WT 45.8 0.694	185,	12.4	PACE 1 12	S1ZE .4 7.8	SHEET 1	OF 1
	STEP	SREQ	!D			
LEVEL A - Mil-P-116 Method II LEVEL B - Same as level A	1	,	Wrap	Mil-P-1766	7 20 X	40
CLEANING - MIL-P-116, C-1	2	1	Tape	A-A-883	3/4 X	48
DRYING - MIL-P-116	3	2	PPP-F	<u>'-320, Clas</u>	s Dom.	
PACKING			Fibre	board Pad	12 X 12	X 1.
LEVEL A - MIL-STD-2073 - 1A LEVEL B - MIL-STD-2073 - 1A	_4		Conta	iner. PPP-	9-636. R	SC. WSC
MARKING MIL-STD-129			12 X	12 X 7		
NOTES:	_5	2	Tape	PPP-T-60,	Type IV,	Class 1
			2 X	19		.,
			_			
	sho die PPi ace	ould : e-cut e-C-	have a in the 1752 I able s	n Fibreboan 10-inch diam center. Polyethyler alternate	meter hole ne Foam	
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SPECIAL PACKA	GING INSTRUC	TION	CUDE 1D 98747	<u> </u>	VII. (TPO) 144-1051
PART OR DRAWING NO. NA	NTIONAL STOCK NO. 1630-01-408-0315	CURRENT REV V		SHEET RIIDNEAU MERMAN	1 OF 7
ITEM NOMENCI WHEEL ASSE	- -	DRIGINAL DATE 66139	ENUR. M. STE		
MILITARY PRESERVATION IN SERVICEABLE METHOD: 20 UNSERVICEABLE METHOD: 10 DUP 001	AV MIL-STD-20/3	PACKING AS	SPECIFIED BELUV C STYLE	AND BILL	CH MATERIALS VRIY OR TR [35 > [35 >
ICQ 000 CLEANING & DRYING: IAW MIL-S PRESERVATIVE: MIL-C-11796 ! OR EQUAL		GROSS CU FT GROSS WIT BS DESIGN FRAGILIT	VA VA	VIL A ARIES ARIES 120	120
MARKING IAW MIL -STD-129 SPECIAL MARKINGS: A) SPI NO. F00-744-1051 1. MARK THE SPI NUMBER ON ONE S 2. MARK REUSEABLE CONTAINER UD	IDE OF THE CONTAINER.	CNTR (.D. CNTR (J.D. LIEM DIM (ITM W),	LENGTH VARIES VARIES VARIES VARIES	WIDIH	DEPTH
CLOSURE LEVEL A: IAV ANTM-D6251 LEVEL B: IAV ASTM-D1974		V WEDATE SP	REVISION DESCRIPTIO RECT & UPDATE ECS. AND WOOD T I SPECIAL CU	N STATE MENT	DATE 99005
-7 A/R STRAPPING -6 A/R TAPE	A/R X 7/16 X .017		950 TYPE III		
- 5 A/R PANS (SUPPORT & FILLER		AS [M-D5	787 TYPE 1 OR	<u> </u>	
-4 1 TAPE	A/R	A-A UST	TYPE T ÜR I!		
-3 RACE COVER -2 WRAP	A/R		TYPE I, GRAD		
-1 2 SKIDS (LEVEL A)	VARIES 4 X 4 (NÚM) X AZR	A: A - 317		SS 1. CRADE	A, FIN L
P/N DTY NOMENCLATURE REOD DESCRIPTION	SIZE CINCHES UNLESS SPEC		MATERIAL SPI		Fin 1 (286-)051
DD 44101 2169 MUD		·• • · · · · · · · · · · · · · · · · ·	C	OMPUTER	GENERATED

SPECIAL PACKAGING INSTRUCTION	CTIDE ID 98747	SPI Fon-			- ·
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CAUTION NOTICES

NOTICE 1: ANY WHEEL THAT HAS A HEAT SHIELD THAT PROTRUDES PAST THE EDGE OF THE WHEEL MUST HAVE A FIBERROARD RELIEF PAD MADE TO ACCOMMODATE THE SHIELD EQUAL TO REF. -5 SUPPORT AND FILLER PADS.

EUROPEAN UNION (EU) REQUIREMENTS NOTICES

NOTICE 2: LUMBER AND PACKAGING/CONTAINER STATEMENT - "ALL WOODEN LUMBER AND WOOD CONTAINERS PRODUCED ENTIRELY OR IN PART OF NON-MANUFACTURED SOFTWOOD SPECIES SHALL BE CONSTRUCTED FROM HEAT TREATED (HT) MATERIAL (HT TO 56 DEGREES CENTICRADE OR 133 DEGREES FAHRENILLI FOR 30 MINUTES). CERTIFICATION IS REQUIRED BY AN ACCREDITED AGENCY RECOGNIZED BY THE AMERICAN LUMBER STANDARDS COMMITTLE (ALSC). CONSTRUCTION AND CERTIFICATION SHALL BE IN ACCORDANCE WITH NON-MANUFACTURED WOOD PACKING POLICY AND NON-MANUFACTURED WOOD PACKING ENFORCEMENT REGULATIONS, BOTH DATED MAY 30, 2001.5 THESE DOCUMENTS CAN BE FOUND AT WWW.APHIS.USDA.GOV.

NOTICE 3: WODDEN PALLET STATEMENT - "ALL WOODEN PALLETS PRODUCED ENTIRLLY OR IN PART OF NON-MANUFACTURED SOLTWOOD SPECIES SHALL BE CONSTRUCTED FROM MEAT TREATED (HT) MATERIAL (HT TO 56 DEGREES CENTIGRADE OR 133 DEGREES FAHRENHEIT FOR 3D MINUTES) CERTIFICATION IS REQUIRED BY AN ACCREDITED ACENCY RECOGNIZED BY THE AMERICAN LUMBER STANDARDS COMMITTEE (ALSC). CONSTRUCTION AND CERTIFICATION SHALL BE IN ACCORDANCE WITH NON-MANUFACTURED WOOD PACKING POLICY AND NON-MANUFACTURED WOOD PACKING ENFORCEMENT REGULATIONS, BOTH DATED MAY 30, 2001," THESE DOCUMENTS CAN BE FOUND AT WWW.APHIS.USDA.GOV.

NOTICE 4: HARDWOOD SPECIES SYNTEMENT - "ALL WOODEN PALLETS PRODUCED ENTIRELY OF NON-MANUFACTURED HARDWOOD SPECIES SHALL BE IDENTIFIED BY A PERMANENT MARKING OF "NO" (NON-CONFEROUS), 1.25 INCHES OR GREATER IN HEIGHT, ACCOMPANIED BY THE CACE CODE OF THE CONTRACTED MANUFACTURER AND THE MONTH AND YEAR OF THE CONTRACT. ON PALLETS, THE MARKING SHALL BE APPLIED TO THE STRINGER OR BLOCK ON OPPOSITE SIDES AND ENDS OF THE PALLET AND BE CONTRASTING AND CLEARLY VISIBLE."

SPECIAL PACKAGING INSTRUCTION	CODE 10 98747	SPI F00-			
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NOTES

- INSPECT WHEEL TO INSURE RACE HAS BEEN CLEANED AND PRESERVED BY THE MAINTENANCE ACTIVITY IN ACCORDANCE WITH REQUIREMENTS OF T.O. 4W-1-61.
- 2. PLACE ASTM-04727, TYPE OF, CLASS DOMESTIC, VARIETY IW, CRADE 200, FIBERBOARD PAD OUT TO THE INSIDE LENGTH AND WIDTH OF THE CONTAINER INTO THE BOTTOM OF THE CONTAINER. PLACE BARRIER MATERIAL WITHIN THE CONTAINER. BARRIER MATERIAL MUST BE IN ACCORDANCE WITH METHOD 20 REQUIREMENTS OF MILESTO-2073. PLACE WHEEL IN CONTAINER AND FOLD BARRIER MATERIAL OVER TOP OF WHEEL PLACE ANOTHER ASTM-04727. TYPE OF, CLASS DOMESTIC, VARIETY IW, CRADE 200, FIRETRIOARD PAD OUT TO INSIDE LENGTH AND WIDTH OF CONTAINER ON TOP OF WHEEL; CLOSE AND SECURE.
- 3. THE APPROPRIATE SHIPPING CONTAINER WILL BE SELECTED FROM THE FOLLOWING CRITERIA:
 - LEVEL A SHIPMENTS, RECARDLESS OF WEIGHT, WILL BE PACKED IN CLEATED PLYWOOD BOXES CONFORMING TO ASTM-DE251, STYLE OF CONTAINER SHALL BE DETERMINED BY THE WEIGHT OF THE WILCEL WHEN THE CROSS WEIGHT EXCEEDS 200 LBS, 3 x 4 NOMINAL SKIDS CONFORMING TO ASTM-D6199, CLASS 2 WILL BE MOUNTED TO THE BOTTOM OF THE CONTAINER.
 - BET LEVEL B SHIPMENTS, CONTAINERS CONFORMING TO ASTM-D5118 SHALL BE USED AS FOLLOWS:

UP TO 65 LB3 ----- CRADE W5C 60 TO 90 LBS ----- CRADE V15C 90 TO 120 LBS ----- CRADE V13C 120 TO 160 LBS ----- GRADE V11C

CONTAINERS CONFORMING TO ASTM-05168-95 SHAIL BE USED AS FOLLOWS:

160 LUS AND UP ----- ---- GRADE 1100 TW

- SHIPPING CONTAINERS SELECTED WILL NOT BE MORE THAN 1 INCH LARGER THAN THE OUTSIDE DIMENSION OF THE WHEEL. WILLN THIS OCCURS, FIBERBOARD FILLER CONFORMING TO SW. CR 200. WILL BE USED TO INSURE A SNUG FIT CARE SHALL HE TAKEN TO PREVENT CONTAINER DISFIGURATION LET BULGING, LTC.
- 4. ON SHIPMENTS OF F-111 WHITELS, PLACE "WASHER" ON CYLINDER PRIOR TO INSERTING THROUGH WHEEL. OUTSIDE DIAMETER OF "WASHER" WILL BE 8 INCHES WITH 5% INCH DIAMETER HOLF, PLACE ANOTHER "WASHER" OVER SHOULDER ON NUT PRIOR 10 INSTALLING NUT ON CYLINDER, THIS WASHER WILL HAVE 6% INCH OUTSIDE DIAMETER WITH 51% INCH DIAMETER HOLE, TIGHTEN NUT UNTIL BOTH "WASHER" ARE HELD SNUGLY IN PLACE. BOTH "WASHER" WILL BE X6 VENEER, PAPER OVERLAID, PP-V 205 OR X PLYWOOD, A-A-55057, TYPE A.
- 5. NOTE 4 WILL NOT APPLY TO SHIPMENTS OF F-111 WHELLS MINUS CONF AND BEARINGS.
- 6. PRESERVATIVE SHOULD BE APPLIED TO BEARING CUP, RACES AND BEARING IF THEY ARE PRESENT.
- 7. COVER BLARING OPENINGS WITH REF -3, RACE COVERS AND REF -4. TABLE
- 8. PACKAGING LEVEL A. ASTM-06251, CONTAINERS WILL BE LINED WITH SINGLE WALL FIBERBOARD COUAL TO ASTM-04727, TY CF. CL DOM, VAR SW. GRADE 200, TO PROTECT THE WHEELS FROM THE CONTAINER.
- 9. FILL VOIDS WITH FIBERBOARD EQUAL TO REF. -S
- WHFELS PACKED IN PREVIOUS ADDITIONS OF THIS SPLOG NOT REQUIRE REPACKING IF THE INTEGRITY OF THE PACK HAS NOT BEEN COMPROMISED.

SPECIAL PACKAGING INSTRUCTION	CODE 10 98747			[] ⁽ [])	1
ITEM NAMENCLATURE WHEEL ASSEMBLY		SHEET	4	Ü	7

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NSN	WI	DIMENTIONS	CON 1YP	CON INSIDE DIMENTIONS	PK WT	AIRCRAFT
1630-00-125-7194	25	11 X II X 12		10 X 15 X 12 FMS	30	C-7 A MAIN
1630-00-139-8476	32	15 X 15 X 7\(\frac{1}{4}\)	F)3	16 X 16 X 8	39	F-5 MAIN
1630-00-157-6723	104	47 X 47 X 18		47 X 47 X 19	120	C-III MAIN
1630-00-169-6990	15	10 × 10 × 7		12 X 12 X 71	13.8	M HE3 HEL
1630:00:188-4084	75	49 X 49 X 17		49 X 49 X 18	105	C-5 W HLT
1630-00-290-5155	30	26 X 26 X 10		26 x 26 x 10}	35	M HEST HEL
1630-00-328 8309	53	38 X 58 X 8f		28 X 38 X 9	30	1-39
1630-00-406-3998	30	15 × 15 × 7		16 × 16 × 0	35	T-33 FMS
1630-00-832-9087	104	47 X 4/ X 18		47 X 47 X 19	180	Γ-111 MAIN
1630-m-887-3207	30	38 X 38 X 11		38 × 38 × 11)	35	KC-135 DZW
1630-00-903-2923XW		NO INCORMATION		251 X 251 X 19 FMS	163	C-119
1630-00-913-9677	12	13½ X 13½ X 4½	7	14 X 14 X 45	13	T-38 MAIN
1630-00-945-9255XW	165	801 x 531x 16	₩Đ	25 X 25 X 19 FMS	340	C-153
1630-01-009-8474	68	46 X 46 X 16	1	46 X 46 X 17	65	E-3 MAIN
1630-01-010-9337	48	18 X 18 X 15		50 X 50 X 15	70	E-3 A NOSE
1630-01-04) -6012	38	13 X 15 X 7	FB	16 X 16 X 8	39	F-S MAIN
1630-01-055-5056	35	15 X 15 X 71	FI	16 X 16 X 8	39	F-5 E MAIN
1630-01-225-1893	96	로1출 × 81호 × 11용	FL	55 X 55 X 15	104	F-15 SUB F M
1630-01-242-7809	35	46 X 16 X 8		46 X 46 X 9	40	£-3
1630-01-252-3593	48	16 X 16 X E	1-8	DBSOLCTE	65	F-16 M BL40
1650-01-294-7958	30	38 X 38 X 11	1	36 X 38 X 11]	35	KC-135 NOS
1630-01-330-4660	51	18 × 18 × 8	гв	178 × 178 × 98	54	F-16 M BL50
1600-01-366-4996	96,	513 X 515 X 115	F B	55 X 55 X 15	104	F-15 SUR E M
1630-01-408-0315	96	हार ४ हेरड ४ हेरड	r g	28 X 88 X 18	104	F-15 M MAIN

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SPECIAL PACKAGING INSTRUCTION	CODE TD 98747			(TPI 4-105	
ITEM NOMENCLATURE WHEEL ASSEMBLY			5	IJ	7

ATTACHMENT I

SPECIAL CONDITIONS AUTHORIZATION

UNDER NORMAL CONDITIONS AIRCRAFT TIRES AND WHEELS SHOULD NEVER BE SHIPPED TOGETHER. HOWEVER, THERE ARE SPECIAL CONDITIONS IN THE FIELD WHEN SHIPPING TIRES AND WHEELS AS AN ASSEMBLY IS NECESSARY TO ACCOMPLISH MISSION REQUIREMENTS. THIS AUTHORIZATION IS TO ACCOMMODATE THOSE MISSION ESSENTIAL NEEDS. WHEN WHEELS AND TIRES ARE ASSEMBLED IT IS RECOMMENDED THE TOTAL RATED PRESSURE BE REDUCED BY 15-20% (LEAVING 80-85%) OF THE MAXIMUM RATED PRESSURE. THIS REDUCTION IN TOTAL PRESSURE IS RECOMMENDED AND NOT MANDATORY. NEVER INFLATE TIRES OVER THE MAXIMUM RATED PRESSURE. WHEN SHIPPING TIRE AND WHEEL ASSEMBLIES THEY MUST BE SECURED AT ALL TIMES AND THE HAZARD OF BEING UNDER PRESSURE MUST BE IDENTIFIED. PROTECTIVE PROCEDURES TO BE USED WHEN SHIPPING AIRCRAFT TIRE AND WHEELS AS ASSEMBLIES ARE AS FOLLOWS:

- 1. SHIPPERS AND CARRIERS ARE RESPONSIBLE TO ENSURE TIRE AND WHEEL ASSEMBLIES ARE PROPERLY PREPARED AND PROTECTED FOR SHIPMENT. WHENEVER POSSIBLE, TIRE AND WHEEL ASSEMBLIES WILL BE PACKED, SHIPPED AND/OR STORED IN A VERTICAL POSTION (ON THE TREAD). WHEN SHIPPING TIRE AND WHEEL ASSEMBLIES VERTICALLY (ON THE TREAD) PLACE FIBERBOARD SEPARATORS BETWEEN EACH ASSEMBLIES VERTICALLY (ON THE TREAD) PLACE FIBERBOARD SEPARATORS BETWEEN EACH ASSEMBLY. THIS IS TO ELIMINATE ANY CHAFING AND DAMAGE THAT MAY BE CAUSED BY METAL TO METAL CONTACT OF THE WHEELS. IF THE WHEELS HAVE HEAT SHIELDS THAT EXTEND PAST THE EDGE OF THE WHEELS FIBERBOARD RELIEF PADS MUST BE USED TO INSURE THE HEAT SHIELDS ARE NOT CRUSHED. THE CONTAINER DESIGNED FOR TIRES ARE TO BE USED WITH THESE CHANGES: IF THE WHEELS ASSEMBLED WITH THE TIRES ARE TOO WIDE FOR THE CONTAINER, REDUCE THE QUANTITY BY ONE AND FILL THE VOID WITH A SUITABLE FILLER. THIS FILLER CAN BE A FALSE END THAT IS ADEQUATELY SUPPORTED. WHEEL AND TIRE ASSEMBLIES SHOULD NOT BE SHIPPED HORIZONTALLY IF AT ALL POSSIBLE. IF YOU HAVE NO OTHER OPTION BUT TO SHIP THEM HORIZONTALLY THEY WILL NOT BE STACKED, YOU MUST GHIP ONLY ONE ASSEMBLY TO A CONTAINER. TIRE AND WHEEL ASSEMBLIES MAY BE SHIPPED HORIZONTALLY (ON SIDEWALLS) WITH THESE PROVISIONS: TIRE AND WHEEL ASSEMBLIES THAT ARE SHIPPED HORIZONTALLY MAY BE EASILY DAMAGED. THIS DAMAGE MAY RESULT WHEN SIDEWALLS CONTACT ANY SHIPPING SURFACE THAT MAY GOIGE, CUT OR PUNCTURE THE TIRE OR DENT THE WHEEL. THE TIRE CAN NOT PROTRUDE PAST THE SHIPPING SURFACE SUCH AS A PALLET. WHEN TIRE AND WHEEL ASSEMBLIES ARE SHIPPED HORIZONTALLY THE SHIPPER MUST ENSURE THE PROTECTION OF ALL PARTS OF THE TIRE AND WHEEL. THIS MAY REQUIRE RELIEF FOR HEAT SHIELDS TO PREVENT CRUSHING, AS THE HEAT SHIELD EXTENDS PAST THE EDGE OF THE WHEEL, THEN THAT HEAT SHIELD NEEDS TO BE PROTECTED AT ALL TIMES. IN ADDITION, WHEN TIRE AND WHEEL ASSEMBLY AND THE CONTAINER TO ELIMINATE ANY DAMAGE. SHIPPER MUST EPROVET EIGE AND WHEEL ASSEMBLY AND THE CONTAINER TO ELIMINATE ANY DAMAGE. SHIPPER MUST EPROV
- 2. NO TIRES OVER 40 INCHES MAY BE SHRINK-WRAPPED OR SHIPPED ON A STANDARD 48 X 40 PALLET. WHEN POSSIBLE, FABRICATE CUSTOM PALLETS LARGE ENOUGH TO ACCOMMODATE THE SIZE OF THE WHEEL AND TIRE ASSEMBLIES. TIRES MAY NOT HANG OVER THE EDGE OF A PALLET. THE USE OF A TOP AND BOTTOM SHEET OF FIBERBOARD IS RECOMMENDED. USE OF A TOP SHEET OF FIBERBOARD DURING WRAPPING WILL WATERPROOF THE PALLETIZED TIRE. THE BOTTOM SHEET PROTECTS THE TIRES FROM THE PALLET. PVC (STRETCH WRAP) FILMS SHOULD NOT BE USED, AS THESE LOOSEN AT HIGH TEMPERATURES AND COULD AFFECT THE STABILITY OF THE TIRE. THIS MEETS MILITARY STANDARDS FOR SERVICEABLE AND UNSERVICEABLE METHODS OF PRESERVATION IT IS RECOMMENDED THAT UPON ARRIVAL AT THEIR DESTINATION, A/C TIRE AND WHEEL ASSEMBLIES BE UNWRAPPED IMMEDIATELY AND STORED VERTICALLY (ON THEIR TREADS). IF THE TIRE AND WHEEL ASSEMBLIES ARE TO BE RESHIPPED WITHIN A SHORT PERIOD OF TIME THEY MAY BE LEFT PALLETIZED.

SPECIAL PACKAGING INSTRUCTION	CDDE ID 98747			. (TP) 4-105]
ITEM NOMENCLATURE WHEEL ASSEMBLY			6	OF	7	

ATTACHMENT I - CONTINUED

- 3. SHIPPERS MUST ENSURE SHIPPING SURFACES ARE FREE FROM ANYTHING THAT COULD DAMAGE THE TIRES AND WHEELS. ANY SHARP OR PROTRUDING OBJECTS CAN EASILY DAMAGE TIRES (E.G., NAILS, WOOD SLIVERS, ETC.). PRIOR TO PUTTING MATED TIRE AND WHEEL ASSEMBLIES IN ANY CONTAINER, TRUCK, TRAILER, RAIL CAR, ETC., AND ON PALLETS, ALL SURFACES WILL BE INSPECTED TO INSURE NOTHING WILL PUNCTURE OR DAMAGE THE TIRES AND WHEELS. WHEN SURFACES ARE IN SUCH CONDITION THAT THEY CAN CAUSE DAMAGE TO THE TIRES AND WHEELS THEY MUST BE LINED TO PROTECT THE TIRES AND WHEELS. DO NOT SHIP TIRE AND WHEEL ASSEMBLIES NEXT TO, ON TOP OF, OR UNDER ANY MATERIAL THAT COULD CAUSE DAMAGE TO THE TIRES AND WHEELS.
- 4. WHEN TIRE AND WHEEL ASSEMBLIES ARE UNIT PACKED IN QUANTITIES OF MORE THAN ONE. THEY SHALL BE SEPARATED BY A FIBERBOARD DIVIDER THAT WILL SEPARATE METAL TO METAL COMPONENTS WITHOUT DAMAGE TO THE TIRES AND WHEELS. ALSO, THE QUANTITIES OF EACH PACK MAY VARY DEPENDENT UPON SIZE OF THE ASSEMBLIES AND MAY NOT MATCH THE DRAWINGS ON THIS SPI.
- 5. THIS POLICY HAS BEEN CREATED TO ENSURE ALL FORWARD READINESS SPARES PACKAGES (REP) SUPPORTED LOCATIONS AND FORWARD SUPPLY LOCATIONS (EN-ROUTE), THAT ROUTINELY RECEIVE AND SHIP MISSION ESSENTIAL FORWARD ASSEMBLIES, ARE BEING EXPEDITIOUSLY MOVED TO SUPPORT ALL AIR COMMAND TASKED MISSIONS. ANY QUESTION OR CONCERNS REGARDING THIS POLICY SHOULD BE ADDRESSED TO THE PROPER MANAGING AIR LOGISTICS COMMAND (ALC).

